

Amendments to the Specification:

On page 1, prior to the first paragraph which begins on line 3, please insert the following:

TECHNICAL FIELD

On page 1, prior to the paragraph which begins on line 5, please insert the following:

BACKGROUND DISCUSSION

On page 1, prior to the paragraph which begins on line 15, please insert the following:

SUMMARY OF THE INVENTION

Please replace the paragraph which appears on page 1, line 18, with the following rewritten paragraphs:

This object is achieved by a method which converts analog measured values into digital measurement data in a sensor-module of a sensor used in process automation; transfers the digital measurement data to a sensor-module head of the sensor via a galvanically decoupled transfer path and to a calibration unit; saves the measurement data to a portable storage medium which is separate from the calibration unit; transports the storage medium in a separated state to a computer unit; converts the storage medium with the computer unit; and transfers the measurement data to the computer unit via a standard interface provided at the computer unit. The interface may be a USB interface, and the data transfer between the sensor and the calibration unit occurs with a proprietary protocol in accordance with the RS485 standard.

The method also envisions converting analog measured values into digital measurement data in a sensor-module of the sensor and transferring the digital measurement data to a sensor-module head of the sensor via a galvanically decoupled transfer path and to a plug-in module of a computer unit, with the plug-in module being

embodied as an ex-barrier. The plug-in module may be a PCMCIA plug-in card.
~~through the process steps defined in the independent claims.~~

On page 1, prior to the paragraph which begins on line 21, please insert the following:

BRIEF DESCRIPTION OF THE DRAWINGS

Please replace the paragraph which appears on page 1, line 21 and ends on page 2, line 3, with the following rewritten paragraph:

The invention will now be described in greater detail on the basis of multiple examples of embodiments illustrated in the drawings, the figures of which show as follows:

Fig. 1 a schematic illustration of a computer unit which exchanges data with a sensor via an interface;

Fig. 2 a schematic illustration of a computer unit which exchanges data with a sensor via a plug-in module; and

Fig. 3 a schematic illustration of a computer unit which exchanges data with a sensor via a portable storage medium.

On page 2, prior to the paragraph which begins on line 3, please insert the following:

DESCRIPTION OF THE DRAWINGS

Please delete page 8.